

SYSC 4504: Fundamentals of Web Development

Assignment 1: Tables and Forms

Due: Friday, January 30, 1 pm

Assignment Description

This term, for each assignment, I will provide you with some initial code that you will have to extend/modify. In this assignment, start with the files provided in the accompanying ZIP folder on Brightspace. Change the HTML markup and CSS styling so that `assignment1.html`, when displayed in a browser, looks as much as possible like the image below (here displayed with Microsoft Edge).

Advanced Art Work Search

Search titles Subject: History Person Landscape Select Genre Bulk Actions

Paintings					
	Title	Artist	Year	Genre	Actions
<input type="checkbox"/>	 <i>Portrait of Alida Christina Assink</i>	Kruseman, Jan	1833	Realism	<input type="button" value="Edit"/> <input type="button" value="Archive"/> <input type="button" value="Delete"/>
<input type="checkbox"/>	 <i>Portrait of William II, King of the Netherlands</i>	Kruseman, Jan	1839	Realism	<input type="button" value="Edit"/> <input type="button" value="Archive"/> <input type="button" value="Delete"/>
<input type="checkbox"/>	 <i>Three girls from the Amsterdam Orphanage</i>	Schwartze, Therese	1885	Realism	<input type="button" value="Edit"/> <input type="button" value="Archive"/> <input type="button" value="Delete"/>
<input type="checkbox"/>	 <i>The Windmill at Wijk bij Duurstede</i>	Ruisdael, Jacob van	1670	Dutch Golden Age	<input type="button" value="Edit"/> <input type="button" value="Archive"/> <input type="button" value="Delete"/>
<input type="checkbox"/>	 <i>Morning Ride Along the Beach</i>	Mauve, Anton	1871	Realism	<input type="button" value="Edit"/> <input type="button" value="Archive"/> <input type="button" value="Delete"/>

The required markup should all go into `assignment1.html`, the necessary styling instructions should be contained within `assignment1.css` (which gets loaded by `assignment1.html`). Design your solution based on the following guidelines:

- The form at the top of this page consists of a text box, a list of radio buttons, and two drop-down lists. For the Genre list, make the other choices “Baroque,” “Renaissance,” and “Realism.” For the Bulk Actions list, make the others choices “Archive,” “Edit,” “Delete,” and “Collection.”

The drop-down list items should have numeric values starting with 0. Notice the placeholder text in the search box.

- Create a table of paintings that looks similar to that shown in the above figure. Be sure to make the table properly accessible.
- The checkboxes in the table should be an array of elements—for example, `<input type="checkbox" name "index[]" value="10" />`. The name and values are arbitrary, but each checkbox needs to have a unique value.
- The action buttons in each row are a series of `<button>` containers with the `type="button"` attribute (this prevents them from submitting the form) and an image within the button.
- Set the form's method attribute to GET and its action attribute to <https://www.randyconnolly.com/tests/process.php>.
- While some of the styling has been provided, you will have to add some additional CSS styling. A selection of colors are defined within variables-palette-7.css

Say that the following entries are selected in the top part of the form:

Advanced Art Work Search

Fundamentals

Subject: History Person Landscape

Realism

Filter

Bulk Actions Apply To All

Clicking on “Filter” will invoke the script, producing output such as:

Form Input

GET Data

```
search=Fundamentals
subject=2
filter=4
actions=0
```

POST Data

There are no POST variables

Similarly, assume a number of paintings are selected and the Delete action is chosen:

Advanced Art Work Search

Search titles

Subject: History Person Landscape

Select Genre

Delete

Apply To All

Paintings					
Title	Artist	Year	Genre	Actions	
<input type="checkbox"/> 	Portrait of Alida Christina Assink Kruseman, Jan	1833	Realism	<input type="button" value="Edit"/> <input type="button" value="View"/> <input type="button" value="Delete"/>	
<input checked="" type="checkbox"/> 	Portrait of William II, King of the Netherlands Kruseman, Jan	1839	Realism	<input type="button" value="Edit"/> <input type="button" value="View"/> <input type="button" value="Delete"/>	
<input type="checkbox"/> 	Three girls from the Amsterdam Orphanage Schwartze, Therese	1885	Realism	<input type="button" value="Edit"/> <input type="button" value="View"/> <input type="button" value="Delete"/>	
<input checked="" type="checkbox"/> 	The Windmill at Wijk bij Duurstede Ruisdael, Jacob van	1670	Dutch Golden Age	<input type="button" value="Edit"/> <input type="button" value="View"/> <input type="button" value="Delete"/>	
<input type="checkbox"/> 	Morning Ride Along the Beach Mauve, Anton	1871	Realism	<input type="button" value="Edit"/> <input type="button" value="View"/> <input type="button" value="Delete"/>	

Clicking on “Apply to All” will yield the following result:

Form Input

GET Data

```
search=
filter=0
actions=3
index=Array
--Index 0 Selected value=20
--Index 1 Selected value=30
```

POST Data

There are no POST variables

Submission Requirements

Submit your assignment using Brightspace, under Assignment 1 Submission for the course. You should submit a single ZIP file containing exactly two files: a single HTML document, which you should call `assignment1.html` and one CSS file, called `assignment1.css`. Once the TA loads the HTML document with a web browser, he/she should be able to test that you correctly performed all tasks.

Marks will be based on:

- Completeness of your submission
- Correct solution to the problem
- Adhering to the submission requirements

The due date is based on the time of the Brightspace server and will be strictly enforced. If you are concerned about missing the deadline: multiple submissions are allowed. So you can always submit a (partial) solution early, and resubmit an improved solution later. This way, you will reduce the risk of running late, for whatever reason (slow computers/networks, unsynchronized clocks, failure of the Internet connection at home, etc.).

In Brightspace, you can submit an assignment multiple times, though only the most recent submission will be kept. The system also provides online feedback whether you submitted something for an assignment. It may take a while to learn the submission process, so I would encourage you to experiment with it early and contact the TA in case you have problems, as only assignments properly and timely submitted will be marked and will earn you assignment credits.

Sample output:

Form Input

GET Data

There are no GET variables

POST Data

```
title=Travel Pitfalls
description=Here is an example what not to do when trying to eat a BeaverTail
continent=North America
country=Canada
city=Ottawa
copyright=2
cc=Array
--Index 0 Selected value=2
--Index 1 Selected value=3
accept=on
rate=1
color=#ff0000
date=2017-09-22
time=06:30
```

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Note: better to upload a ZIP file, as downloading an HTML document after uploading them seems to result in a loss of `<head>` fields.

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In Brightspace, you can submit an assignment multiple times, though only the most recent submission will be kept. **So make sure you upload BOTH files together!** The system also provides online feedback whether you submitted something for an assignment. It may take a while to learn the submission process, so I would encourage you to experiment with it early and contact the TA in case you have problems, as only assignments properly and timely submitted will be marked and will earn you assignment credits.